Version with markings to show changes made

1. (Amended) A [F]frequency separating filter having a deep-pass branch [(8)] for low frequency signals, particularly of analog communication systems, and a high-pass branch [(7)] for high frequency signals of digital communication systems, with multiple inductive components [(11, 14)] with magnetic cores,
[characterized in that] wherein
the high-pass branch [(7)] comprises at least one component [(11, 14)] with a magnetic core made of an amorphous or nanocrystalline alloy.

2. (Amended) The [F]frequency separating filter according to claim 1,
[characterized in that] wherein
the alloy has the composition $Co_a(Fe_{1-c}Mn_c)_bNi_dM_eSi_xB_yC_z$, with M indicating one or more elements from the group Nb, Mo, Ta, Cr, W, Ge, and P and a+b+d+e+x+y+z = 100, with

Co: a = 40 - 82 at%,
Fe+Mn: b = 3 - 10 at%,
Mn/Fe: c = 0 - 1,
Ni: d = 0 - 30 at%,
M: e = 0 - 5 at%,
Si: x = 0 - 17 at%,
B: y = 8 - 26 at%,
C: z = 0 - 3 at%,

$15 < e+x+y+z < 30$.

3. (Amended) The [F]frequency separating filter according to claim 2,
[characterized in that] wherein
the following relationships apply:

Co: a = 50 - 82 at%,
Fe+Mn: b = 3 - 10 at%,

Mn/Fe: c = 0 - 0.5,

Ni: d = 0 - 20 at%,

M: e = 0 - 3 at%,

Si: x = 1 - 17 at%,

B: y = 8 - 20 at%,

C: z = 0 - 3 at%,

with $18 < e+x+y+z < 25$.

4. (Amended) The [F]frequency separating filter according to claim 1, [characterized in that] wherein

the alloy has the composition $Fe_aCu_cM_fSi_dB_e$, with M indicating an element from the group Nb, W, Ta, Zr, Hf, Ti, Mo, or a combination of these and a + c + f + d + e = 100%, with

Fe: a = 100% - c – f – d - e,

Cu: c = 0.5 - 2 at%,

M: f = 1 - 5 at%,

Si: d = 6.5 - 18 at%,

B: e = 5 - 14 at%,

with d + e > 18 at%.

5. (Amended) The [F]frequency separating filter according to claim 4, [characterized in that] wherein

the following relationships apply:

Cu: c = 0.8 - 1.2 at%,

M: f = 2 - 3 at%,

Si: d = 14 - 17 at%,

B: e = 5 - 14 at%,

with d + e = 22 - 24 at%.

6. (Amended) The [F]frequency separating filter according to claim 1, [characterized in that] wherein the alloy has the composition $Fe_xZr_yNb_zB_vCu_w$, with $x + y + z + v + w = 100$ at%, with

Fe: $x = 100$ at% - y - z - v - w,

Zr: $y = 2 - 5$ at%,

Nb: $z = 2 - 5$ at%,

B: $v = 5 - 9$ at%,

Cu: $w = 0.5 - 1.5$ at%,

with $y + z > 5$ at% and $y + z + v > 11$ at%.

7. (Amended) The [F]frequency separating filter according to claim 6, [characterized in that] wherein the following relationships apply:

Fe: $x = 83 - 86$ at%,

Zr: $y = 3 - 4$ at%,

Nb: $z = 3 - 4$ at%,

B: $v = 5 - 9$ at%,

Cu: $w = 1$ at%,

with $y + z = 6 - 7$ at%,

and $y + z + v > 12 - 16$ at%.

8. (Amended) The [F]frequency separating filter according to claim 1, [characterized in that] wherein the alloy has the composition $Fe_xM_yB_zCu_w$, with M indicating an element from the group Zr, Hf, Nb and $x + y + z + w = 100$ at%, with

Fe: $x = 100$ at% - y - z - w,

M: $y = 6 - 8$ at%,

B: $z = 3 - 9$ at%,

Cu: w = 0 - 1.5 at%.

9. (Amended) The [F]frequency separating filter according to claim 8, [characterized in that] wherein the following relationships apply:

Fe: x = 83 - 91 at%,

M: y = 7 at%,

B: z = 3 - 9 at%,

Cu: w = 0 - 1.5 at%.

10. (Amended) The [F]frequency separating filter according to claim 1, [characterized in that] wherein the alloy has the composition $(Fe_{0.98}Co_{0.02})_{90-x}Zr_7B_{2+x}Cu_1$, with x = 0 - 3, with the residual alloy component Co able to be replaced by Ni with appropriate equalization.

11. (Amended) The [F]frequency separating filter according to claim 10, [characterized in that] wherein x = 0.

12. (Amended) The [F]frequency separating filter according to claim 4, [characterized in that] wherein the alloy also has an element which is Co or Ni.

13. (Amended) The [F]frequency separating filter according to claim 12, [characterized in that] wherein the alloy also has Co_b with

Co: b = 0 - 15 at%.

14. (Amended) The [F]frequency separating filter according to claim 5, [characterized in that] wherein

the alloy also has Co_b with

Co: b = 0 – 0.5 at%.